

**Claims:**

I claim:

1. A radar activated mechanism for alerting the operator of a vehicle trailing a vehicle equipped with such means about potentially hazardous reductions in traffic speed forward of said radar-equipped vehicle comprising:

- (a) a radar device mounted integrally with a vehicle with means to measure the speed of a vehicle forward of and relative to said radar-equipped vehicle and with further means to transmit said speed information to a computer processing unit;
- (b) a computer processing unit mounted integrally with said radar-equipped vehicle with means to compare said speed information with a programmed set of criteria pertaining to traffic speed pre-established to be potentially hazardous and, when said speed information is found to sufficiently correspond to said criteria, initiate a response sequence;
- (c) a luminous display controllable by said computer processing unit sufficiently bright to be visible to said operator of said trailing vehicle.

2. The radar activated alert mechanism of Claim 1 further comprising means to access the speedometer reading of said radar-equipped vehicle and with means for transmitting said speedometer speed reading to said computer processing unit;

3. The radar activated alert mechanism of Claim 1 further comprising means mounted integrally with said radar-equipped vehicle for receiving data broadcast from the Global Positioning System and with means for transmitting said data to said computer processing unit;

4. The radar activated alert mechanism of Claim 1 further comprising a warning light controlled by said computer processing unit mounted within the cab of said radar-equipped vehicle for visibly alerting the driver of said radar-equipped vehicle of said potentially hazardous speed changes identified by said computer processor unit;

5. The radar activated alert mechanism of Claim 1 further comprising acoustic means controlled by said computer processing unit mounted within the cab of said radar-equipped vehicle for alerting the driver of said radar-equipped vehicle of said potentially hazardous speed changes identified by said computer processor unit;

6. The radar activated alert mechanism of Claim 1 wherein said luminous display is a blue colored light;

7. A radar activated mechanism for alerting the operator of a vehicle trailing a vehicle equipped with such means about potentially hazardous reductions in traffic speed forward of said radar-equipped vehicle comprising:

(a) a radar device mounted integrally with a vehicle with means to measure the speed of a vehicle forward of and relative to said radar-equipped vehicle and with further means to transmit said speed information to a computer processing unit;

(b) means to access the speedometer speed reading of said radar-equipped vehicle and with means for transmitting said reading to said computer processing unit;

(c) a road-speed term giving the speed of said forward vehicle relative to the road and defined as the sum of said radar-measured relative speed plus said speedometer reading established by said radar-equipped vehicle;

(d) a computer processing unit mounted integrally with said radar-equipped vehicle with means to compute and compare said roadspeed term

with a programmed set of criteria pertaining to traffic speed pre-established to be potentially hazardous and, when the value of said roadspeed term is found to sufficiently correspond to said criteria, initiate a response sequence;

(e) a luminous display controllable by said computer processing unit sufficiently bright to be visible to said operator of said trailing vehicle.

8. The radar activated alert mechanism of Claim 7 further comprising means mounted integrally with said radar-equipped vehicle for receiving data broadcast from the Global Positioning System and with means for transmitting said data to said computer processing unit;

9. The radar activated alert mechanism of Claim 7 further comprising a warning light controlled by said computer processing unit mounted within the cab of said radar-equipped vehicle for visibly alerting the driver of said radar-equipped vehicle of said potentially hazardous speed changes identified by said computer processor unit;

10. The radar activated alert mechanism of Claim 7 further comprising acoustic means controlled by said computer processing unit mounted within the cab of said radar-equipped vehicle for alerting the driver of said radar-equipped vehicle of said potentially hazardous speed changes identified by said computer processor unit;

11. The radar activated alert mechanism of Claim 7 wherein said luminous display is a blue colored light.